# MS-9211 Single P4 1U

## 1U Rack-Mount Server

- **Processor:** Single Intel® Pentium4 478 processor
- **Chipset:** Intel® 845E / ICH4 Chipset
- **Memory**: 2 Slots up to 2GB DDR SDRAM
- Server Management: mBMC NS87431HM
- **Expansion Slot**: 1 PCIX 32/33 slot
- **Drive Bays:** 2 Internal 3.5” HDD Bays, 1 Slim CDD
- **I/O Connectors**: 2 PS/2, 2 Front USB, 2 Rear USB, Video, Serial, 2 RJ-45
- **RAID:** Promise PDC20276, ATA/133, RAID 0, 1
- **LAN:** On-Board Intel 82540 1000Mb and 82551 10/100Mb Ethernet Controller
- **Display:** 16 x 2 LCD Display Panel
- **High Performance Thermal Solution**
- **Dimension:** 435(W) x 460(D) x 43(H) mm

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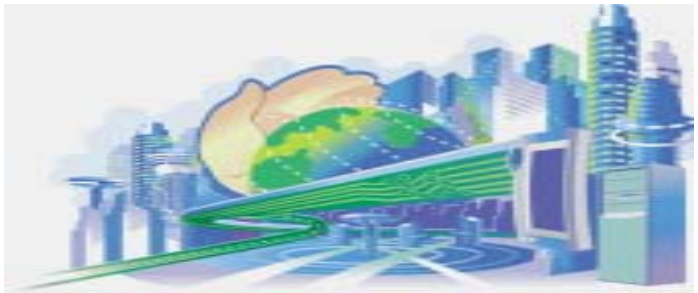
*Server Product Department*

# MSI Server Management Solution with MSI Server Management Suite



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# MSI Server Management Suite

- **MMS** – **M**SI Server **M**anagement **S**uite
  - MMA – MSI Management Adapter
  - MMB – MSI Management Bus
  - IPMI 1.5 Firmware
  - Server Management Applications (iConsole)
  - Embedded BMC

- **MMS Architecture**
  - ✓ H/W: NS Mini BMC Chipset
  - ✓ S/W: MSI iConsole



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# MSI Server Management Suite

## Features:

- ✓ Graphical user interface
- ✓ Consolidated server health information
- ✓ Server power status
- ✓ Compliant to IPMI 1.5
- ✓ Support SNMP v.1
- ✓ Remotely monitor server hardware sensors
- ✓ Configurable sensor thresholds
- ✓ Receive and maintain system event log
- ✓ Configure options to shut down, reboot, power off the system in response to a hardware component event
- ✓ Remotely power control including boot options to boot from hard drive, boot from floppy, boot from CD-ROM, and boot from service partition.



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# MMS Major Functions

- Basic MMS functionality
  - Comply with IPMI 1.5
  - Remote reset, remote power on/off and cycling
  - Out of band management via LAN and MODEM
  - Alerts on critical events
  - Event actions
  - Remote access protection (straight password, MD5)
  - Interface with health sensors and fan controls
  - System health alerting
  - ASR, Boot option, Console Redirection
  - Fan speed control
  - Fault indicator
  - Service LED
  - Front panel lock out
- Extension MMS functionality
  - Platform Event filtering Extension

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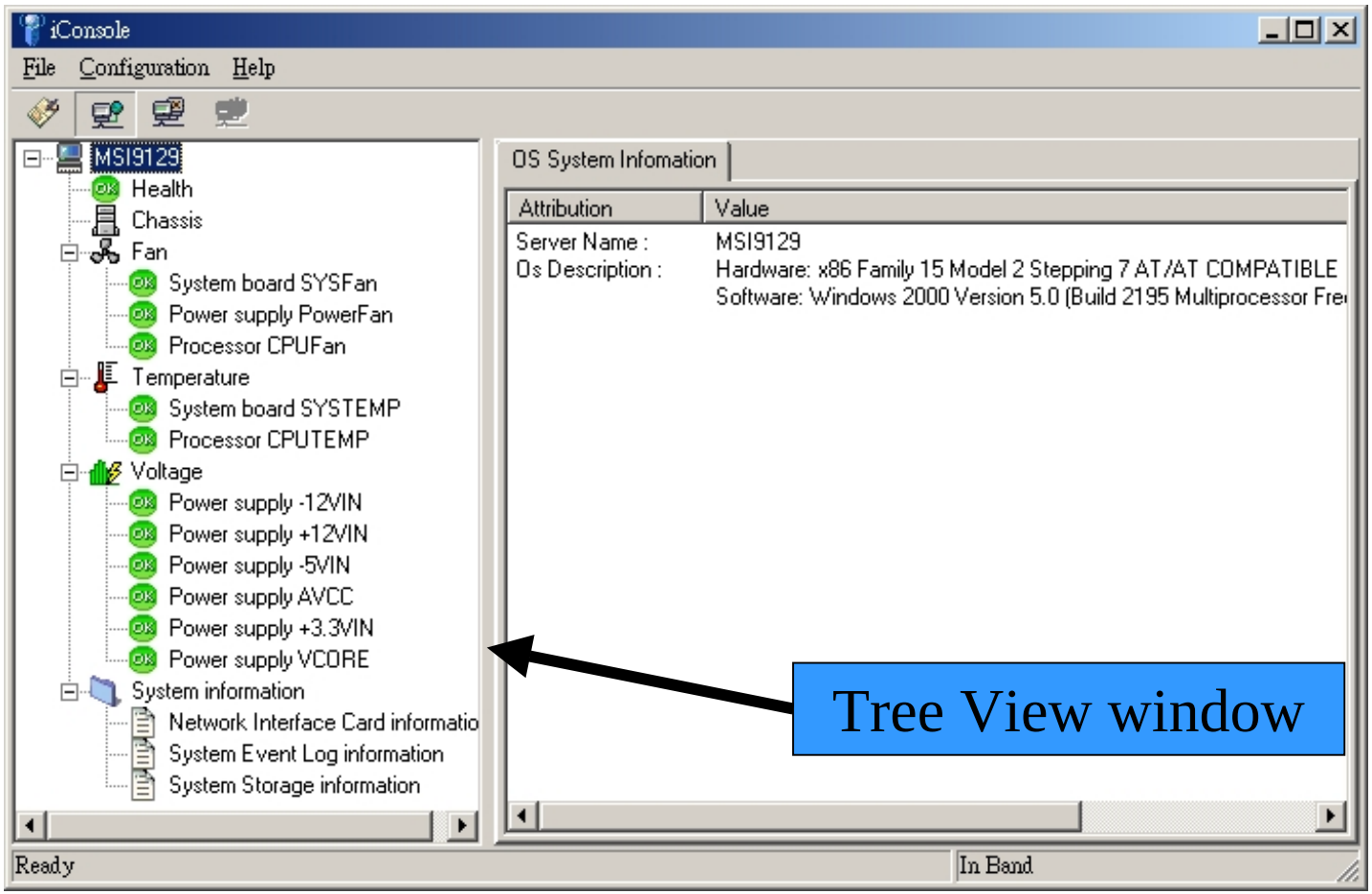
# MMS iConsole Introduction

## Monitoring:

### Monitoring the system Voltage, temperature and notification of mechanism



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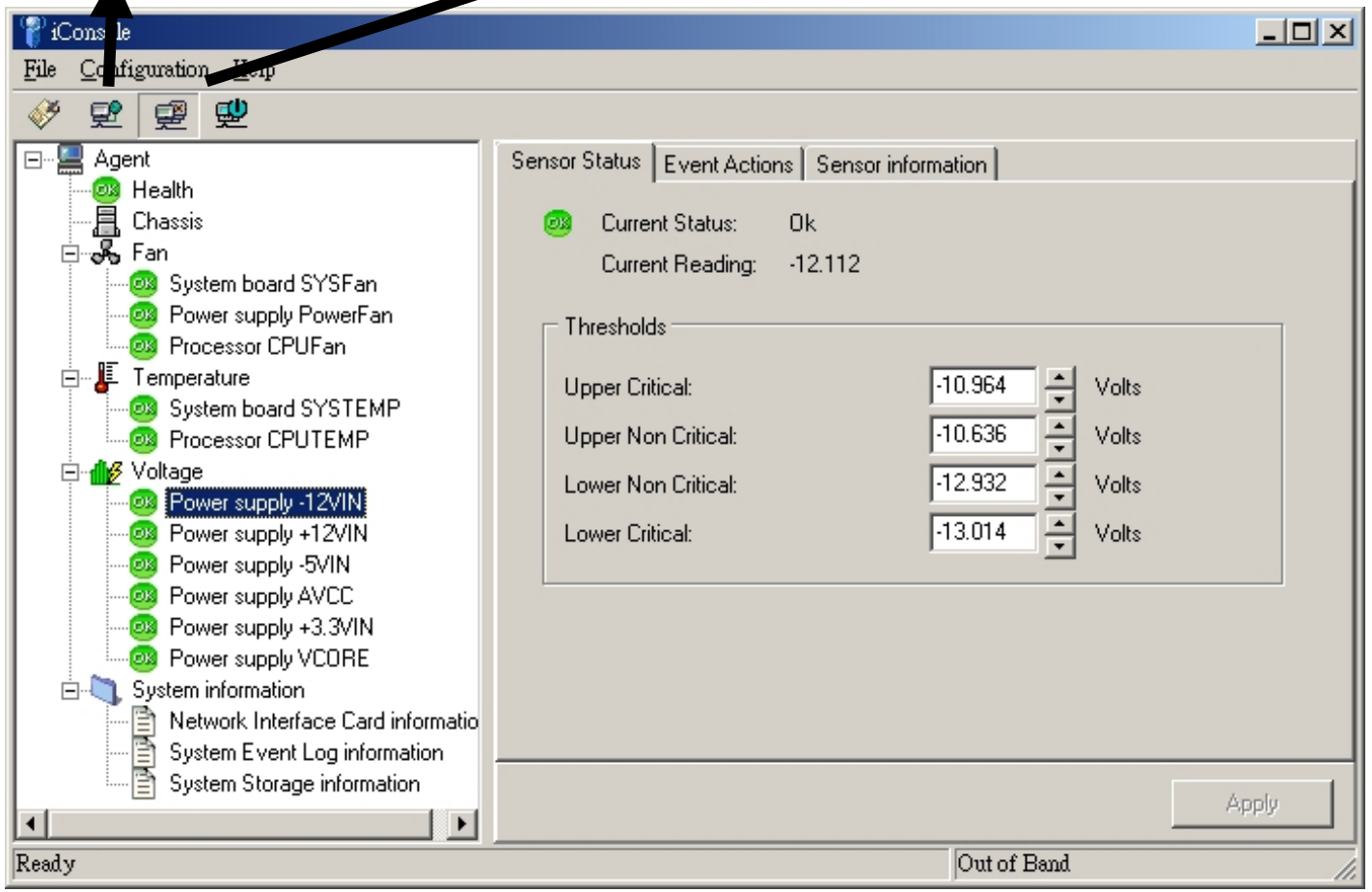
# MMS iConsole Introduction- cont.

**In-Band button- remote monitor when O/S UP (Via SNMP)**

**Out-of-Band button- remote control when O/S down (Via LAN)**



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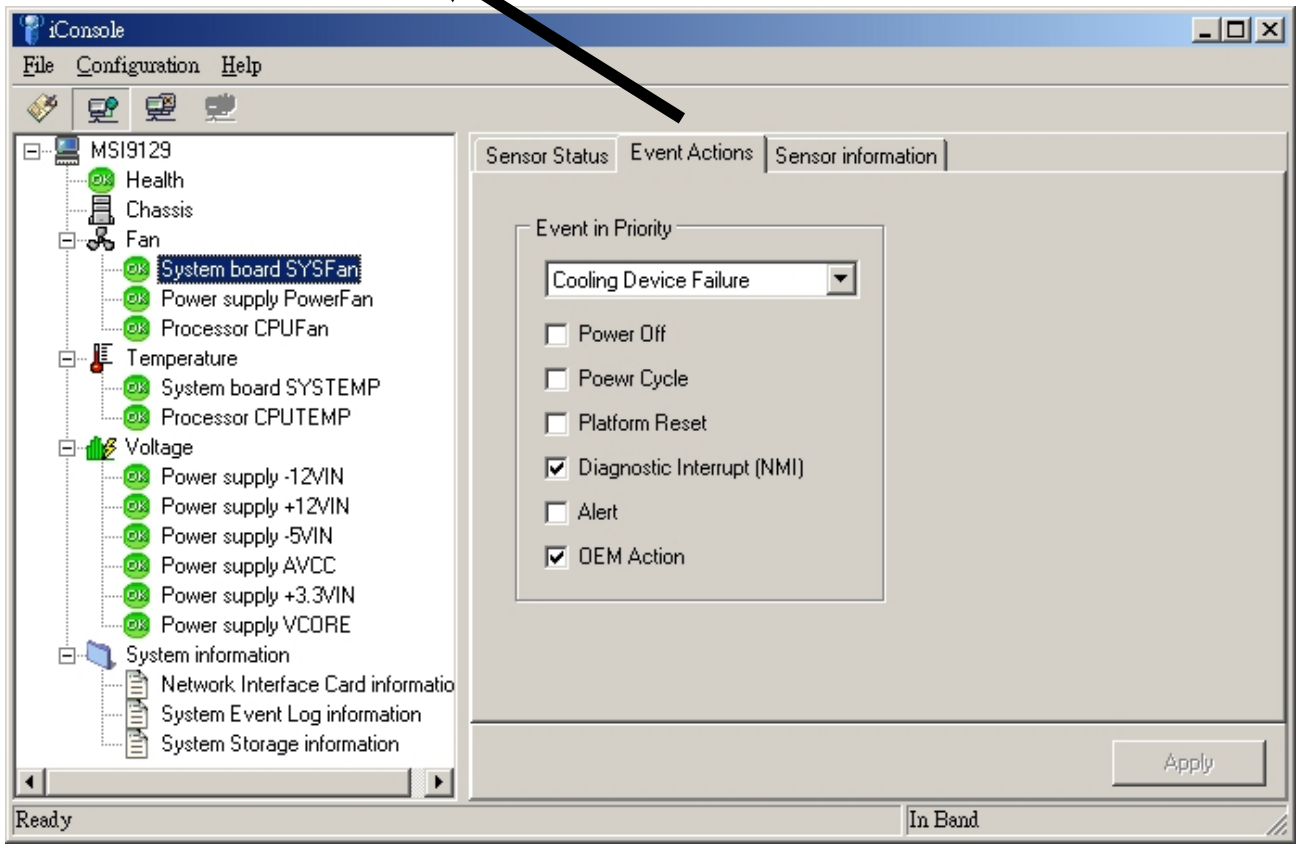
# MMS iConsole Introduction- cont.

**Event Action button-**

**Depends on event items (Critical/ non-critical/ recoverable) to set the action priority**



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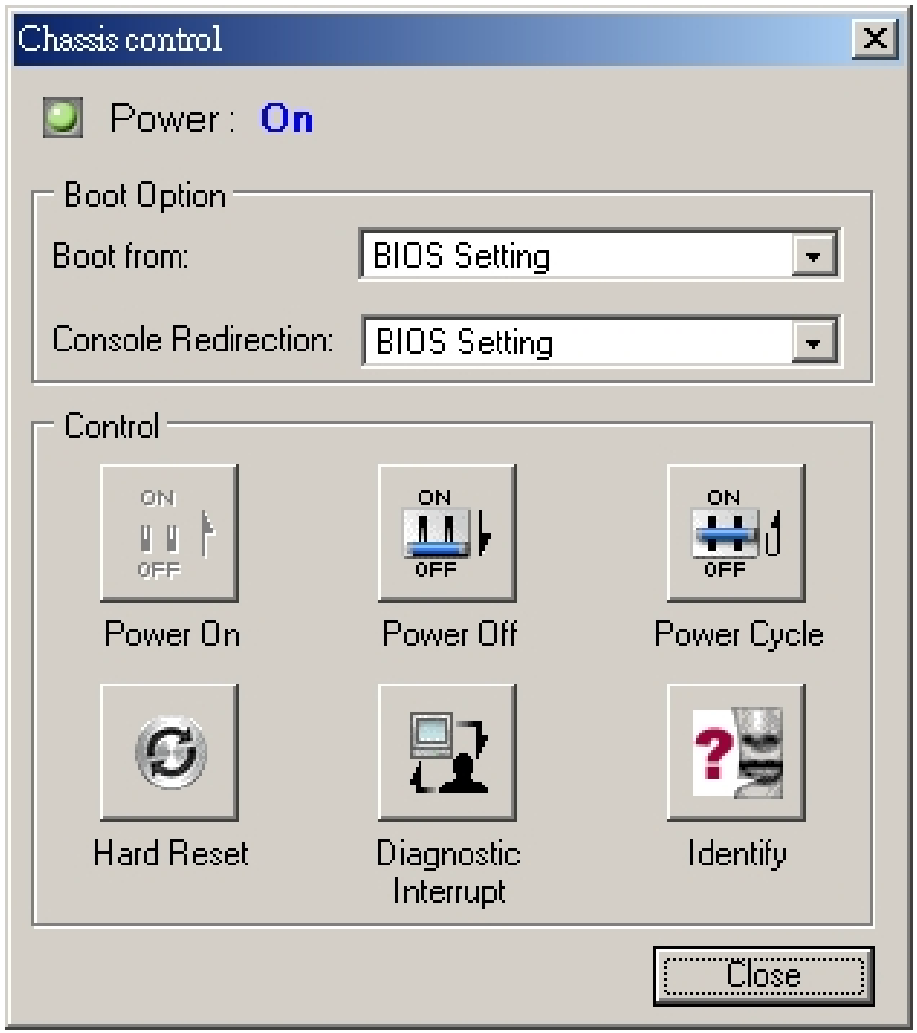
# MMS iConsole Introduction- cont.

## Power Management

**Power Control-**
Support OS reboot, shutdown, reset, power-off/cycle features

**ASR button:**
Automatic Server Restart- Support Timeout/Pre-Timeout,Timeout counting Settings

**Boot Option-**
Providing Media type and Console redirection actions.



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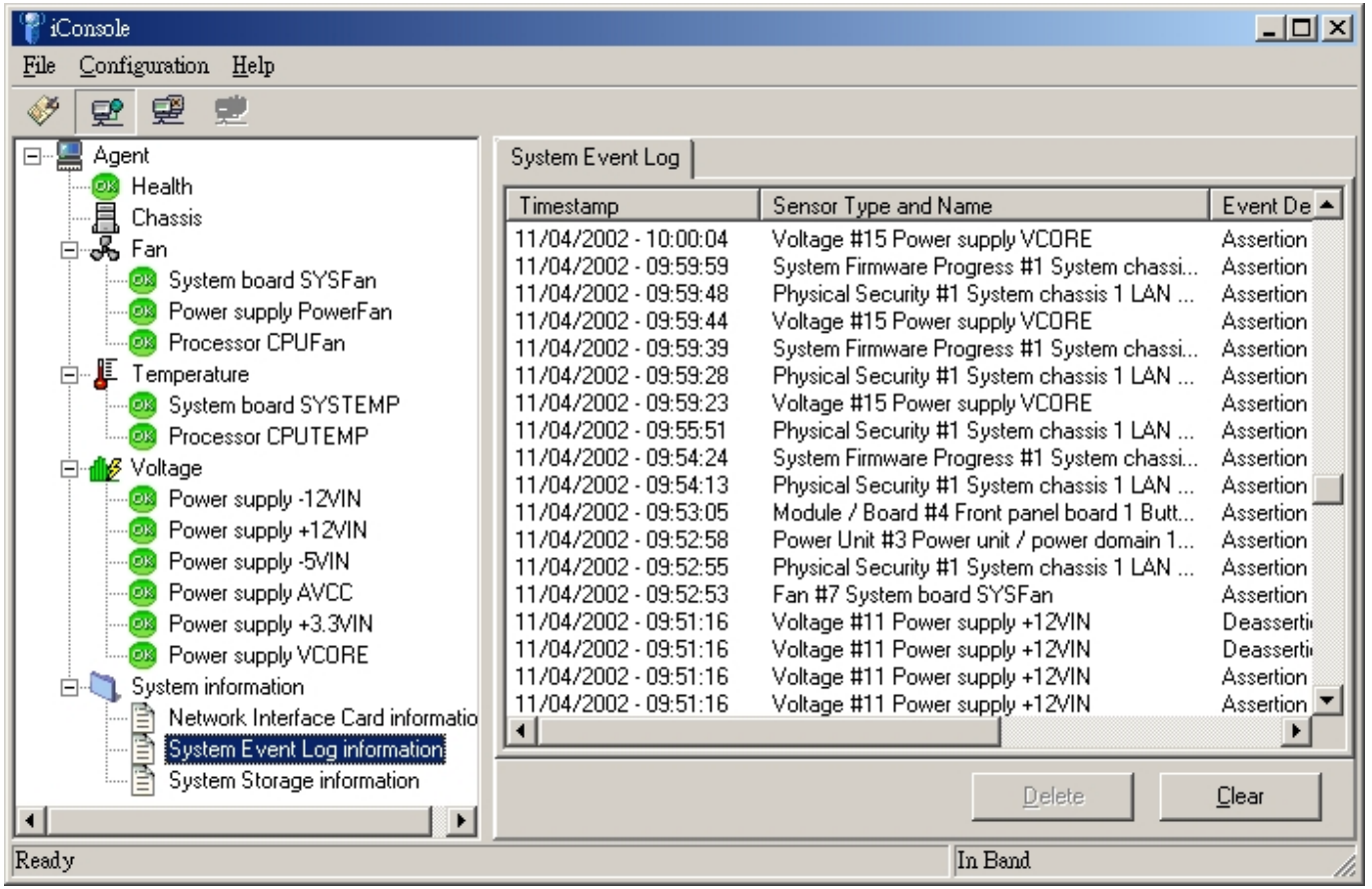
# MMS iConsole Introduction- cont.

## Event Viewer:

## Description with time, agent IP, source IP, help MIS to track system event easier


iConsole
File Configuration Help
Agent
Health
Chassis
Fan
System board SYSFan
Power supply PowerFan
Processor CPUFan
Temperature
System board SYSTEMP
Processor CPUTEMP
Voltage
Power supply -12VIN
Power supply +12VIN
Power supply -5VIN
Power supply AVCC
Power supply +3.3VIN
Power supply VCORE
System information
Network Interface Card informatio
System Event Log information
System Storage information
System Event Log
Timestamp
Sensor Type and Name
Event De
11/04/2002 - 10:00:04 Voltage #15 Power supply VCORE Assertion
11/04/2002 - 09:59:59 System Firmware Progress #1 System chassi... Assertion
11/04/2002 - 09:59:48 Physical Security #1 System chassis 1 LAN ... Assertion
11/04/2002 - 09:59:44 Voltage #15 Power supply VCORE Assertion
11/04/2002 - 09:59:39 System Firmware Progress #1 System chassi... Assertion
11/04/2002 - 09:59:28 Physical Security #1 System chassis 1 LAN ... Assertion
11/04/2002 - 09:59:23 Voltage #15 Power supply VCORE Assertion
11/04/2002 - 09:55:51 Physical Security #1 System chassis 1 LAN ... Assertion
11/04/2002 - 09:54:24 System Firmware Progress #1 System chassi... Assertion
11/04/2002 - 09:54:13 Physical Security #1 System chassis 1 LAN ... Assertion
11/04/2002 - 09:53:05 Module / Board #4 Front panel board 1 Butt... Assertion
11/04/2002 - 09:52:58 Power Unit #3 Power unit / power domain 1... Assertion
11/04/2002 - 09:52:55 Physical Security #1 System chassis 1 LAN ... Assertion
11/04/2002 - 09:52:53 Fan #7 System board SYSFan Assertion
11/04/2002 - 09:51:16 Voltage #11 Power supply +12VIN Deasserti
11/04/2002 - 09:51:16 Voltage #11 Power supply +12VIN Deasserti
11/04/2002 - 09:51:16 Voltage #11 Power supply +12VIN Assertion
11/04/2002 - 09:51:16 Voltage #11 Power supply +12VIN Assertion
Delete
Clear
Ready
In Band



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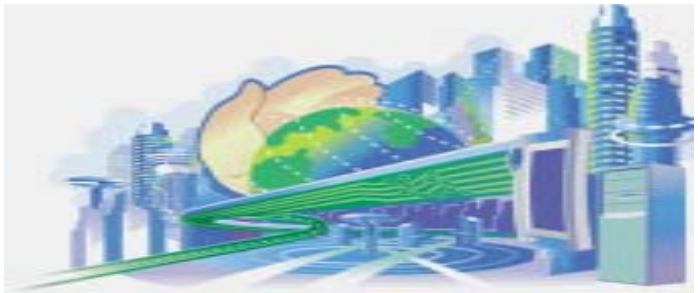
# LCD Module



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# LCD Module Features (MS-6931)

- 16-characters, two-lines LCD of 5*7 dot matrix + cursor with LED Backlight.
- 3 control button can setup system and scroll menu.
- 4 LED display power, HDD, LAN1, LAN2 status.
- Using RS-232 to connector MS-6931 to host.


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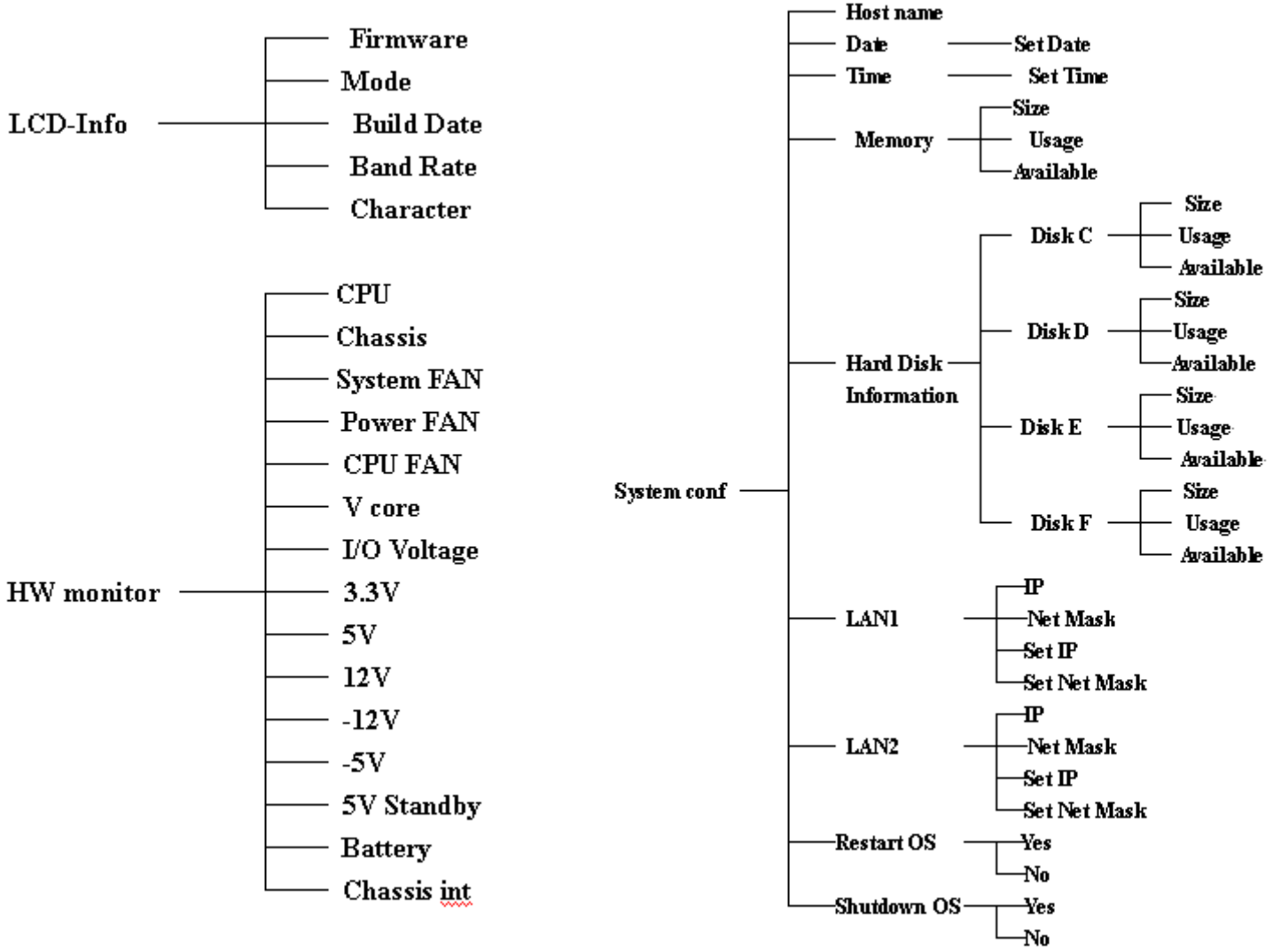
# LCD Module Function



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